FIG. 1A

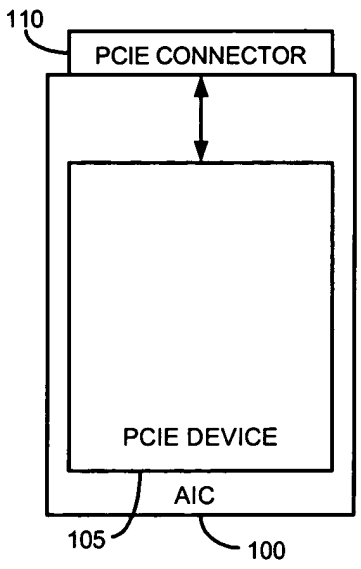



FIG. 1B

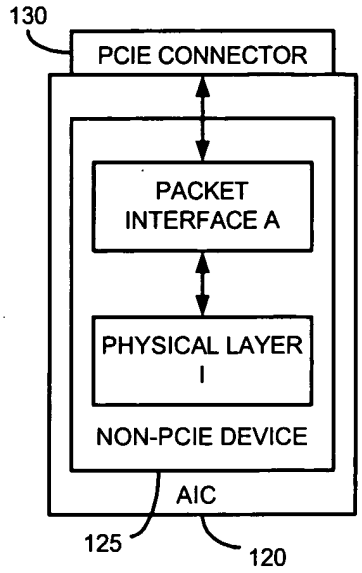



FIG. 1C

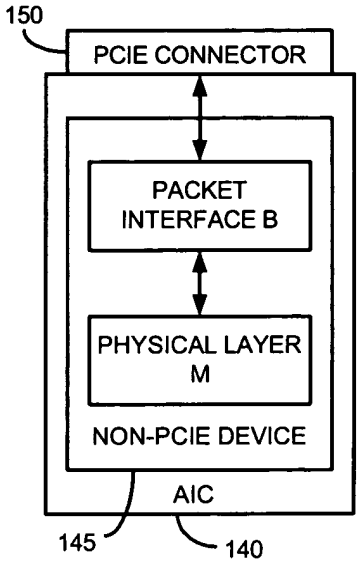



FIG. 3A

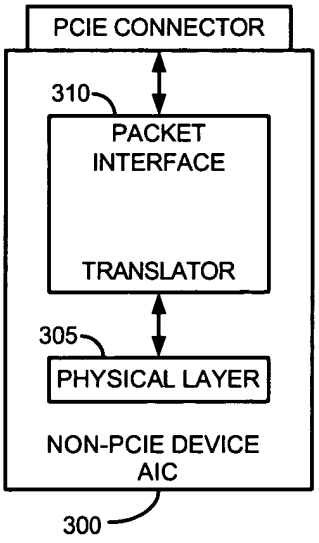



FIG. 3B

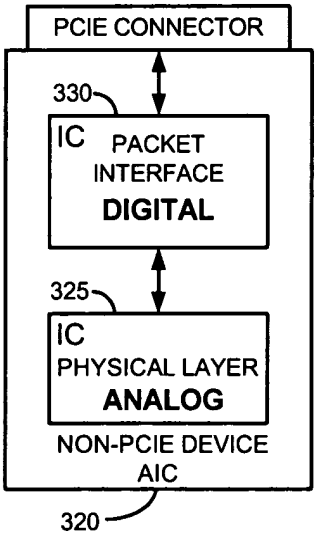



FIG. 3C

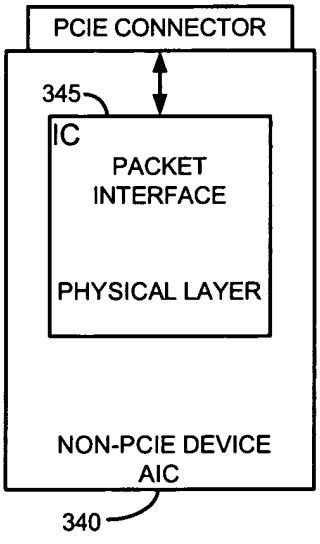


FIG. 2

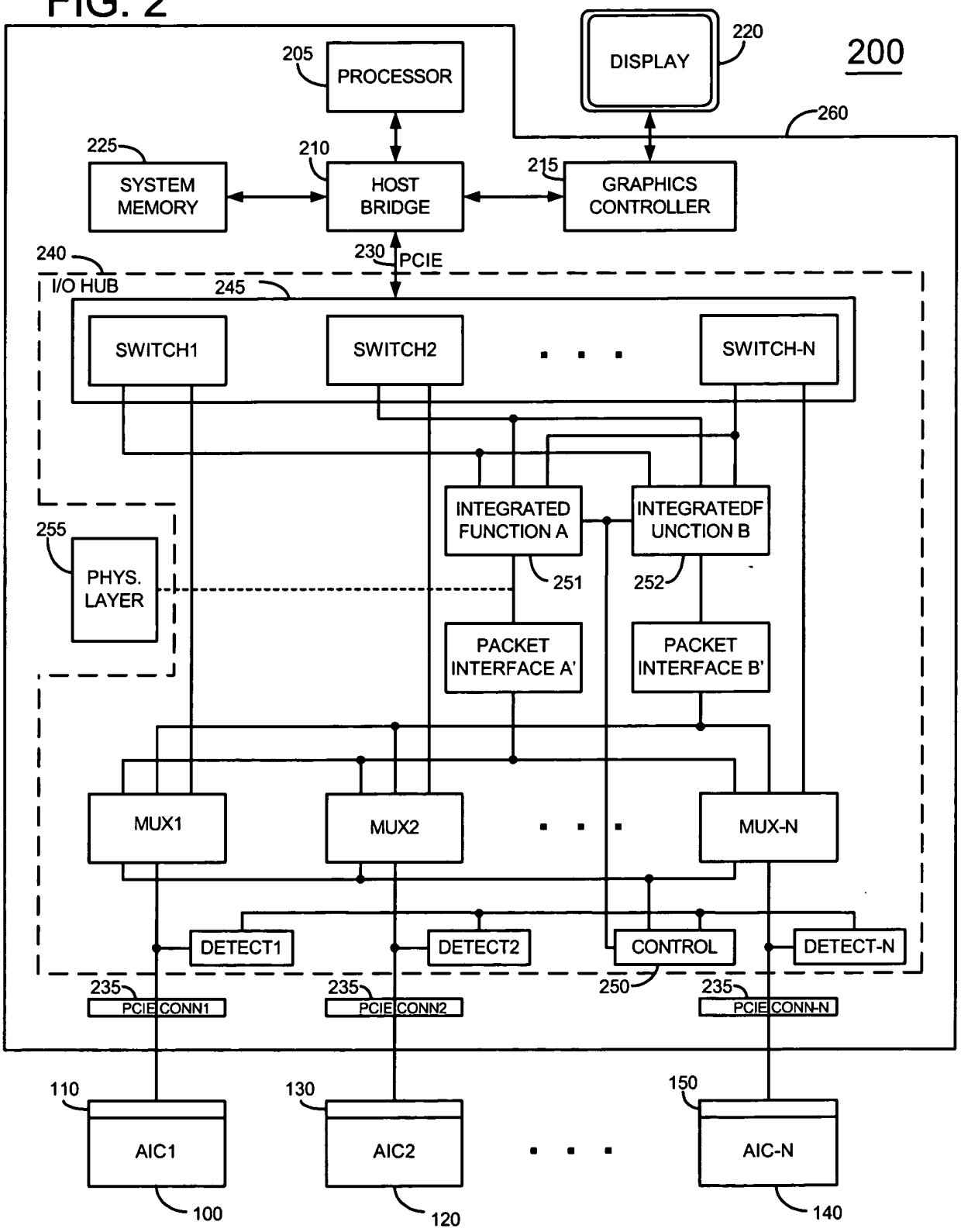

200
205
PROCESSOR
220
DISPLAY
260
225
SYSTEM MEMORY
210
HOST BRIDGE
215
GRAPHICS CONTROLLER
240
I/O HUB
230
PCIE
245
SWITCH1
SWITCH2
SWITCH-N
INTEGRATED FUNCTION A
INTEGRATEDF UNCTION B
255
PHYS. LAYER
251
252
PACKET INTERFACE A'
PACKET INTERFACE B'
MUX1
MUX2
MUX-N
DETECT1
DETECT2
CONTROL
DETECT-N
235
PCIE CONN1
235
PCIE CONN2
250
235
PCIE CONN-N
110
AIC1
130
AIC2
150
AIC-N
100
120
140

FIG. 4

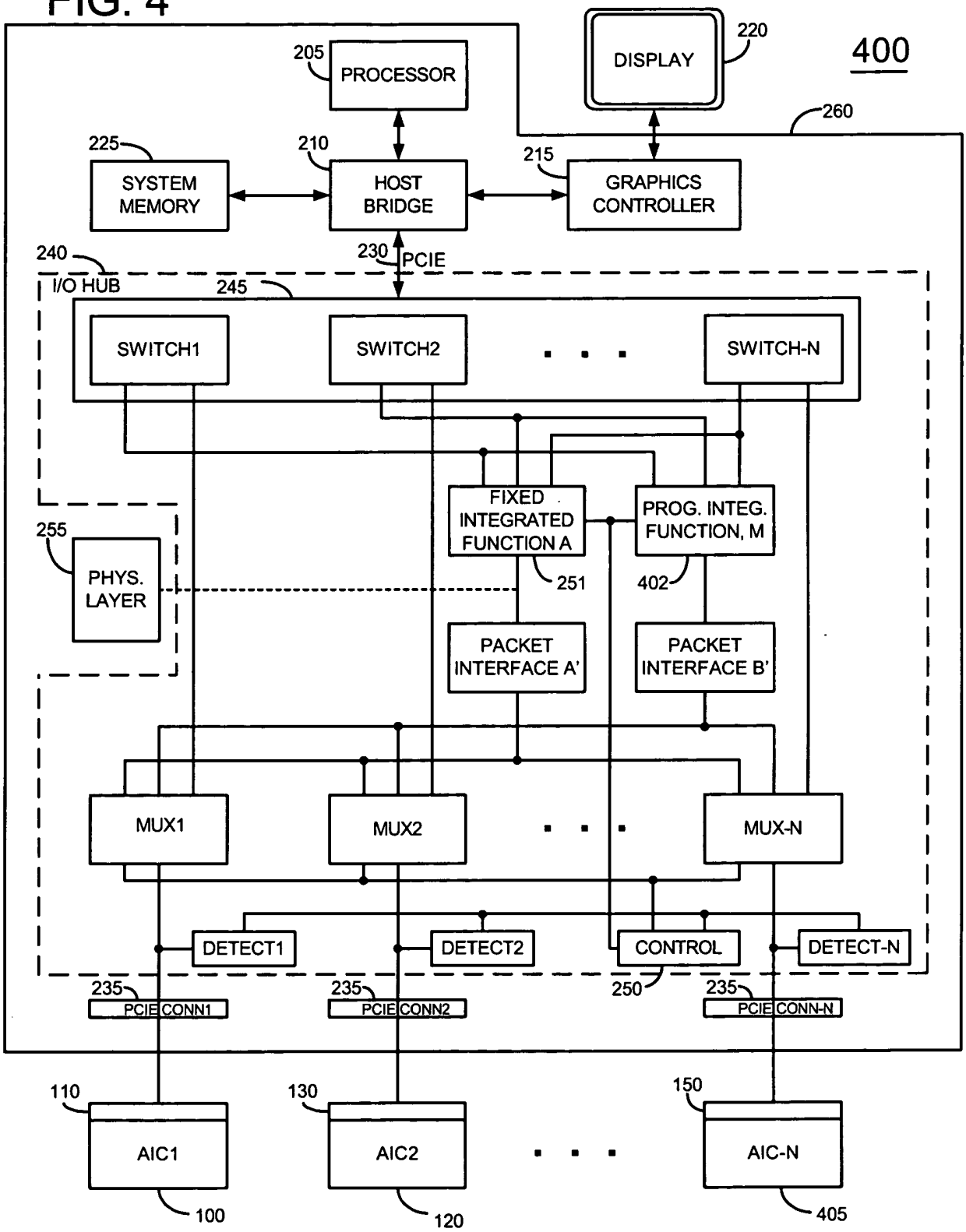

400
205
PROCESSOR
220
DISPLAY
260
225
SYSTEM MEMORY
210
HOST BRIDGE
215
GRAPHICS CONTROLLER
240
I/O HUB
230
PCIE
245
SWITCH1
SWITCH2
SWITCH-N
255
PHYS. LAYER
FIXED INTEGRATED FUNCTION A
251
PROG. INTEG. FUNCTION, M
402
PACKET INTERFACE A'
PACKET INTERFACE B'
MUX1
MUX2
MUX-N
DETECT1
DETECT2
CONTROL
DETECT-N
250
235
PCIE CONN1
235
PCIE CONN2
235
PCIE CONN-N
110
AIC1
100
130
AIC2
120
150
AIC-N
405

FIG. 5

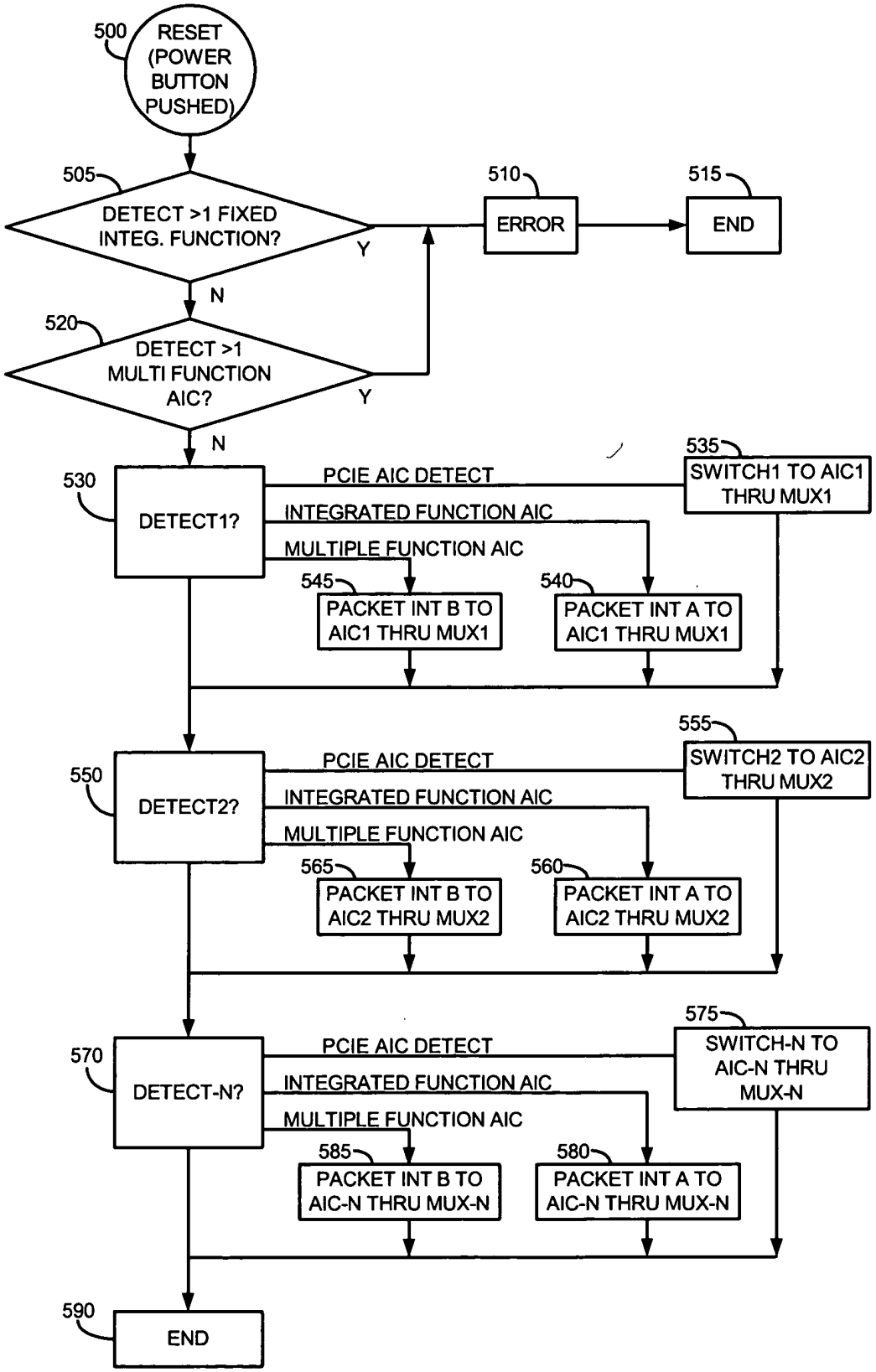

500
RESET (POWER BUTTON PUSHED)
505
DETECT >1 FIXED INTEG. FUNCTION?
Y
510
ERROR
515
END
N
520
DETECT >1 MULTI FUNCTION AIC?
Y
N
530
DETECT1?
PCIE AIC DETECT
INTEGRATED FUNCTION AIC
MULTIPLE FUNCTION AIC
535
SWITCH1 TO AIC1 THRU MUX1
545
PACKET INT B TO AIC1 THRU MUX1
540
PACKET INT A TO AIC1 THRU MUX1
550
DETECT2?
PCIE AIC DETECT
INTEGRATED FUNCTION AIC
MULTIPLE FUNCTION AIC
555
SWITCH2 TO AIC2 THRU MUX2
565
PACKET INT B TO AIC2 THRU MUX2
560
PACKET INT A TO AIC2 THRU MUX2
570
DETECT-N?
PCIE AIC DETECT
INTEGRATED FUNCTION AIC
MULTIPLE FUNCTION AIC
575
SWITCH-N TO AIC-N THRU MUX-N
585
PACKET INT B TO AIC-N THRU MUX-N
580
PACKET INT A TO AIC-N THRU MUX-N
590
END

FIG. 6A

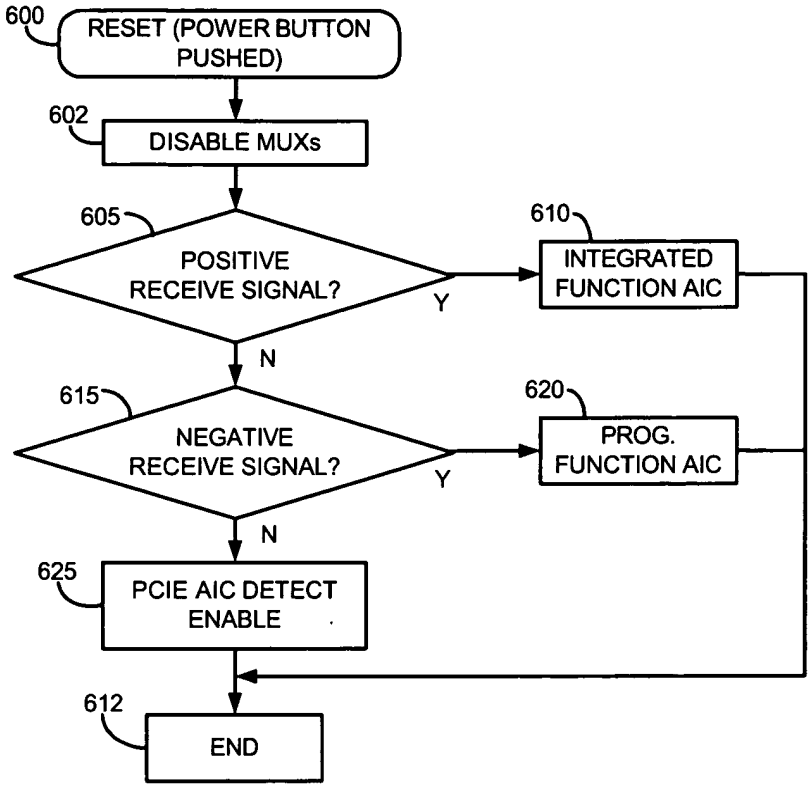
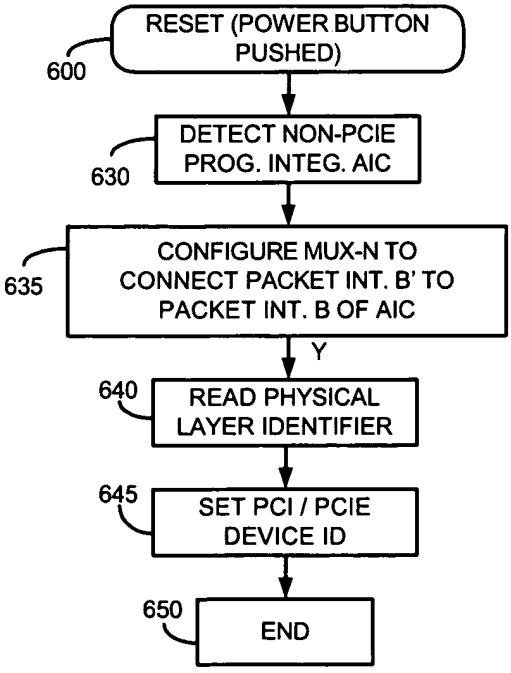

600
RESET (POWER BUTTON PUSHED)
602
DISABLE MUXs
605
POSITIVE RECEIVE SIGNAL?
Y
610
INTEGRATED FUNCTION AIC
N
615
NEGATIVE RECEIVE SIGNAL?
Y
620
PROG. FUNCTION AIC
N
625
PCIE AIC DETECT ENABLE
612
END

FIG. 6B


RESET (POWER BUTTON PUSHED)
600
DETECT NON-PCIE PROG. INTEG. AIC
630
CONFIGURE MUX-N TO CONNECT PACKET INT. B' TO PACKET INT. B OF AIC
635
Y
640
READ PHYSICAL LAYER IDENTIFIER
645
SET PCI / PCIE DEVICE ID
650
END